

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. to 39. (Cancelled)

40. (Presently amended) The compound of Claim 48 ~~Claim 39~~ wherein R<sup>1</sup> is hydrogen or methyl and R<sup>4</sup> is hydrogen.

41. (Original) The compound of Claim 40 wherein "a" represents a double bond.

42. (Cancelled)

43. (Presently amended) The compound of Claim 49 ~~Claim 42~~ wherein R<sup>1</sup> is hydrogen or methyl and R<sup>4</sup> is hydrogen.

44. (Original) The compound of Claim 43 wherein "a" represents a double bond.

45. (Presently amended) The compound of ~~Claim 35~~ selected from the group consisting of:

~~16 $\alpha$ -fluoro-17 $\beta$ -hydroxy-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~

~~16 $\beta$ -fluoro-17 $\alpha$ -hydroxy-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~

~~16 $\alpha$ -fluoro-17 $\beta$ -hydroxy-4,17 $\alpha$ -dimethyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~

~~16 $\beta$ -fluoro-17 $\beta$ -hydroxy-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~

~~2 $\alpha$ -fluoro-17 $\beta$ -hydroxy-4-methyl-4-aza-5 $\alpha$ -androstan-3-one;~~

~~2 $\beta$ -fluoro-17 $\beta$ -hydroxy-4-methyl-4-aza-5 $\alpha$ -androstan-3-one;~~

~~2,2-difluoro-17 $\beta$ -hydroxy-4-methyl-4-aza-5 $\alpha$ -androstan-3-one;~~

~~17 $\beta$ -hydroxy-2 $\alpha$ ,4-dimethyl-4-aza-5 $\alpha$ -androstan-3-one;~~

~~17 $\beta$ -hydroxy-16 $\alpha$ -(methoxymethyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~

~~17 $\beta$ -hydroxy-16 $\alpha$ -(ethoxymethyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~

~~17 $\beta$ -hydroxy-16 $\alpha$ -(2-methoxyethyloxymethyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~

~~17 $\beta$ -hydroxy-16 $\alpha$ -(ethyloxycarbonylmethyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~

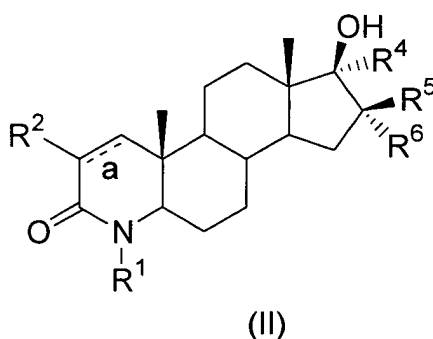
~~17 $\beta$ -hydroxy-16 $\alpha$ -(carboxymethyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~  
~~17 $\beta$ -hydroxy-16 $\alpha$ -(2-hydroxyethyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~  
~~17 $\beta$ -hydroxy-16 $\alpha$ -allyl-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~  
~~17 $\beta$ -hydroxy-4,16 $\alpha$ ,17 $\alpha$ -trimethyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~  
~~17 $\beta$ -hydroxy-17 $\alpha$ -ethyl-4-methyl-4-aza-5 $\alpha$ -androstan-3-one;~~  
17 $\beta$ -hydroxy-16 $\alpha$ -(2-trifluoromethylbenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\alpha$ -(3-trifluoromethylbenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\alpha$ -(4-trifluoromethylbenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\alpha$ -(2-fluorobenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\alpha$ -(3-fluorobenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\alpha$ -(4-fluorobenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\alpha$ -(3-chlorobenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\alpha$ -(4-chlorobenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\alpha$ -(4-trifluoromethoxybenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\alpha$ -(3-methoxybenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\alpha$ -benzyl-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\alpha$ -(2-methylbenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\alpha$ -(2-naphthyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\beta$ -(2-methylbenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\beta$ -(3-methylbenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16 $\beta$ -(4-chlorobenzyl)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(2-chlorobenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(3-fluorobenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(3-trifluoromethylbenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(2-trifluoromethylbenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(3-methoxybenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(3,4-methylenedioxybenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
~~17 $\beta$ -hydroxy-16-(5-methoxy-3,4-methylenedioxybenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~  
17 $\beta$ -hydroxy-16-(3,5-difluorobenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(3,5-dichlorobenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(3,4-dimethoxybenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(pyridin-2-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(pyridin-4-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
~~17 $\beta$ -hydroxy-16-(cyclopropylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~

17 $\beta$ -hydroxy-16-(furan-2-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(1-methyl-imidazol-2-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
~~17 $\beta$ -hydroxy-16-cyclohexylidene-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~  
~~17 $\beta$ -hydroxy-16-ethylidene-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~  
~~17 $\beta$ -hydroxy-16-isopropylidene-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~  
~~17 $\beta$ -hydroxy-16-isobutylidene-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;~~  
17 $\beta$ -hydroxy-16-(piperidin-4-ylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(N-t-butyloxycarbonylpiperidin-4-ylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(1,3-thiazol-2-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(benzofuran-2-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(5-hydroxymethyl-furan-2-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(1-methyl-pyrrol-2-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(pyrrol-2-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(2-ethoxy-pyrimidin-5-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(pyrimidin-5-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(2-methyl-pyrimidin-5-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(3-trifluoromethoxybenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(4-trifluoromethoxybenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(4-dimethylaminobenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(9-methoxy-quinolin-2-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(quinoxalin-6-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(quinoxalin-7-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(2-hydroxybenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(3-hydroxybenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(4-hydroxybenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(pyridin-3-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(N-methylpiperidin-4-ylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(2-chloro-4-dimethylaminobenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;

17 $\beta$ -hydroxy-16-(2-amino-pyridin-3-ylmethylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(3-carboxymethyl-benzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(3-carboxybenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(3-nitrobenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
17 $\beta$ -hydroxy-16-(4-nitrobenzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one; and  
17 $\beta$ -hydroxy-16-(benzylidene)-4-methyl-4-aza-5 $\alpha$ -androst-1-en-3-one;  
or a pharmaceutically acceptable salt thereof.

46. (Presently amended) A composition comprising a compound of Claim 47 ~~Claim 35~~ and a pharmaceutically acceptable carrier.

47. (New) A compound of structural formula II:



or a pharmaceutically acceptable salt thereof wherein

“a” represents a single bond or a double bond;

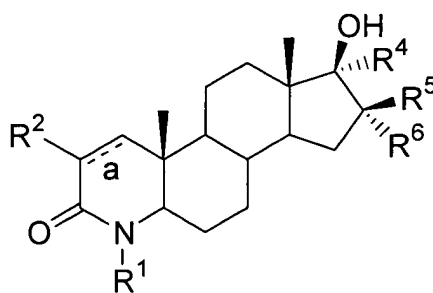
R<sup>1</sup> is hydrogen, hydroxymethyl, or C<sub>1-3</sub> alkyl, wherein alkyl is unsubstituted or substituted with one to seven fluorine atoms;

R<sup>2</sup> is hydrogen, fluorine, or C<sub>1-4</sub> alkyl when “a” represents a double bond; or two R<sup>2</sup> substituents are each independently hydrogen, fluorine, or C<sub>1-4</sub> alkyl when “a” represents a single bond;

R<sup>4</sup> is hydrogen, C<sub>1-4</sub> alkyl, C<sub>2-4</sub> alkenyl, or C<sub>2-4</sub> alkynyl;

one of R<sup>5</sup> and R<sup>6</sup> is hydrogen and the other is arylmethyl, wherein aryl is selected from the group consisting of phenyl, naphthyl, pyridyl, furanyl, pyrrolyl, thiazolyl, imidazolyl, benzofuranyl, and 1,3-benzodioxolyl, wherein the aryl group is unsubstituted or substituted with one to two groups independently selected from halogen, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, cyano, trifluoromethyl, and trifluoromethoxy.

48. (New) A compound of structural formula II:



(II)

according to claim 47 wherein

“a” represents a single bond or a double bond;

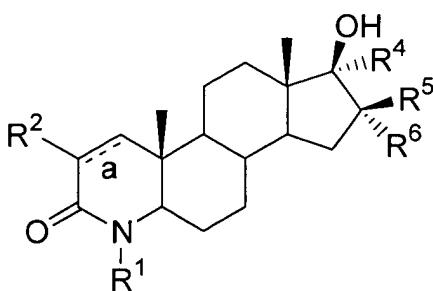
R<sup>1</sup> is hydrogen, hydroxymethyl, or C<sub>1-3</sub> alkyl, wherein alkyl is unsubstituted or substituted with one to seven fluorine atoms;

R<sup>2</sup> is hydrogen, fluorine, or C<sub>1-4</sub> alkyl when “a” represents a double bond; or two R<sup>2</sup> substituents are each independently hydrogen, fluorine, or C<sub>1-4</sub> alkyl when “a” represents a single bond;

R<sup>4</sup> is hydrogen, C<sub>1-4</sub> alkyl, C<sub>2-4</sub> alkenyl, or C<sub>2-4</sub> alkynyl;

R<sup>5</sup> is hydrogen and R<sup>6</sup> is arylmethyl, wherein aryl is selected from the group consisting of phenyl, naphthyl, pyridyl, furanyl, pyrrolyl, thiazolyl, imidazolyl, benzofuranyl, and 1,3-benzodioxolyl, wherein the aryl group is unsubstituted or substituted with one to two groups independently selected from halogen, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, cyano, trifluoromethyl, and trifluoromethoxy.

49. (New) A compound of structural formula II:



(II)

or a pharmaceutically acceptable salt thereof wherein

wherein

“a” represents a single bond or a double bond;

R<sup>1</sup> is hydrogen, hydroxymethyl, or C<sub>1-3</sub> alkyl, wherein alkyl is unsubstituted or substituted with one to seven fluorine atoms;

R<sup>2</sup> is hydrogen, fluorine, or C<sub>1-4</sub> alkyl when "a" represents a double bond; or two R<sup>2</sup> substituents are each independently hydrogen, fluorine, or C<sub>1-4</sub> alkyl when "a" represents a single bond;

R<sup>4</sup> is hydrogen, C<sub>1-4</sub> alkyl, C<sub>2-4</sub> alkenyl, or C<sub>2-4</sub> alkynyl;

R<sup>5</sup> and R<sup>6</sup> taken together are =CHaryl, wherein aryl arylmethyl, wherein aryl is selected from the group consisting of phenyl, naphthyl, pyridyl, furanyl, pyrrolyl, thiazolyl, imidazolyl, benzofuranyl, and 1,3-benzodioxolyl, wherein the aryl group is unsubstituted or substituted with one to two groups independently selected from halogen, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, cyano, trifluoromethyl, and trifluoromethoxy.

50. (New) A composition comprising a compound of Claim 48 and a pharmaceutically acceptable carrier.

51. (New) A composition comprising a compound of Claim 49 and a pharmaceutically acceptable carrier.